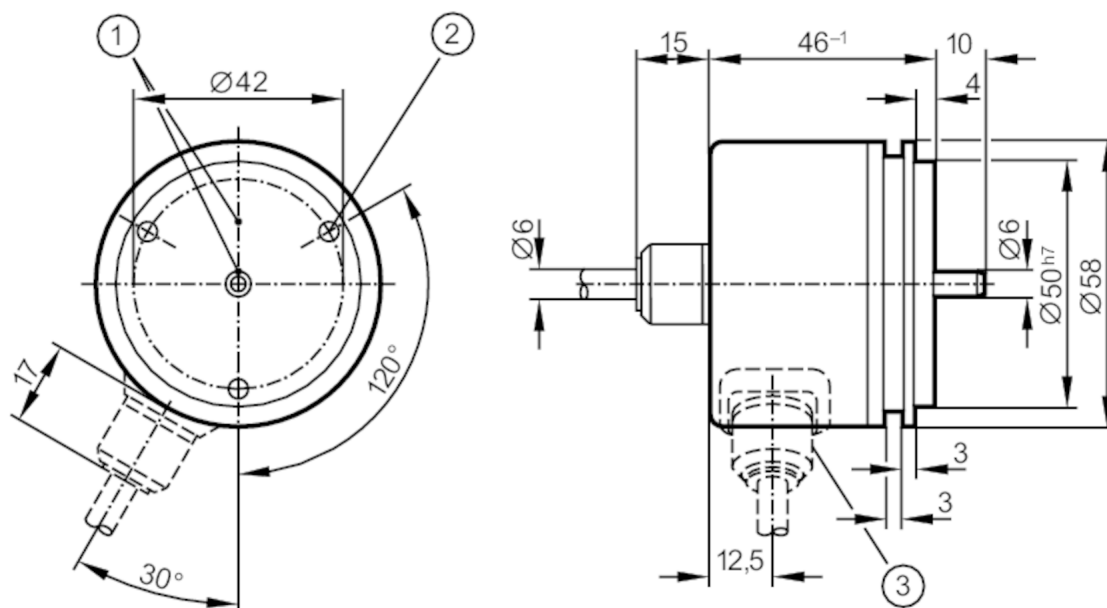




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- 1 reference mark
- 2 M4 Depth 5 mm



Application

Function principle	incremental
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Electrical data

Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	150

Outputs

Electrical design		TTL
Max. current load per output	[mA]	20
Switching frequency	[kHz]	300
Phase difference A und B	[°]	90

Measuring/setting range

Resolution	2500 resolution
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Operating conditions

Ambient temperature	[°C]	-30...100
Note on ambient temperature		for firmly laid cable: -30 °C
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 66

RU1104



Incremental encoder with solid shaft

RU-2500-I05/P1E

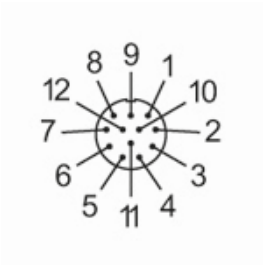
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
MTTF	[years]	190
Mechanical data		
Weight	[g]	165
Dimensions	[mm]	Ø 58 / L = 46
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		synchro-flange
Remarks		
Notes	discontinued article	
Electrical connection		
Cable: 1 m, PUR; axial		
1	B inverted	
2	L+ sensor	
3	0 index	
4	0 index inverted	
5	A	
6	A inverted	
7	failure inverted	
8	B	
9	n.c.	
10	0V (Un)	
11	0V sensor	
13	L+ (Up)	
screen	housing	
Connector: 1 x M23 (ifm 1001.1)		

RU1104



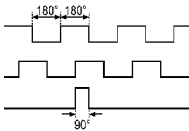
Incremental encoder with solid shaft

RU-2500-I05/P1E



Diagrams and graphs

Pulse diagram



Output A
Output B
0 index

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